1689.

Apollo Anglicanus,

THE

ENGLISH APOLLO:

Assisting

All Persons in the right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful.

A twofold Kalendar, *viz. Julian* or *English*, *Gregorian* or *Forein* Computations, more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon, and also her Southing, Exactly calculated for every day. Of general use for most men.

Being first after Bissextile, *or* LEAP-YEAR.

To which is added the Moons application to the fixed Stars: With the Calculation of the Eclipses: also Rules and Tables for the measuring of Timber: with many other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees, 41 Minutes. Exactly fitting all the middle Counties of *England*, and without sensible Error the whole Kingdom.

By RICHARD SAUNDERS,
Student in the Physical and Mathematical Sciences.

LONDON: Printed by M. CLARK for the Company of STATIONERS, 1689.

The *Julian* or old Account used in *Engl.*	1689.	The *Gregorian* or New Stile used beyond Sea.
18	The Golden Number.	18
F	The Dominical Letters	23
18	The Epact.	5
February 12	Shrove-Sunday.	February 20
May 9	Ascension-Day.	May 19
May 19	Whit-Sunday.	May 29
December 1	Advent-Sunday.	November 27

A Table of the four Terms, and their Returns, &c.

Hilary-Term begins *January* 23. ends *February* 12.

Essoin-days.		*Except.*	*Ret. Brev.*	*Appear.*
Octab. Hillar. Jan.	21	January 22	Jan. 22	Jan. 23
Quind. Hillar. Jan.	28	January 29	Jan. 29	Jan. 30
Craftin. Purif. Feb.	4	February 5	Febr. 5	Febr. 6
Octab. Purif. Feb.	9	February 11	Febr. 11	Febr. 12

Easter Term begins *April* 17. ends *May* 13.

Quind. Pasch. Apr.	15	Apr. 16	Apr. 16	Apr. 17
Tres Pasch. Apr.	22	Apr. 23	Apr. 23	Apr. 24
Mens. Pasch. Apr.	29	Apr. 30	Apr. 30	May 1
Quinq. Pasch. May	6	May 7	May 7	May 8
Craft. Ascens. May	10	May 11	May 11	May 13

Trinity Term begins *May* 31. ends *June* 19.

Craft. Tr. May Oct.	27	May 28	May 29	May 31
Octab. Trin. June	3	June 4	June 4	June 5
Quind. Trin. June	10	June 11	June 11	June 12
Tres Trin. June	17	June 18	June 18	June 19

Michaelmas Term begins *Octob.* 23. ends *Novemb.* 28.

Tres Mich. Octob.	21	Octob. 22	Octob. 22	October 23
Mens. Mich. Octob.	28	Octob. 29	Octob. 29	October 30
Craft. Anim. Nov.	4	Novemb. 5	Novemb. 4	Novemb. 6
Craft. Mart. Nov.	12	Novemb. 13	Novemb. 14	Novemb. 15
Octab. Mart. Nov.	18	Novemb. 19	Novemb. 20	Novemb. 21
Quind. Mart. Nov.	25	Novemb. 26	Novemb. 27	Novemb. 28

A Table of the Kings and Queens of *England* since the Conquer

Kings and Queens names.		Born Anno	*Began to reign.*	Reigned Y.	M	Since their Reigns ended.	Buried a
William	1	1029	1066, Oct. 14	20	11	604, Septem. 9	Caen No
William	2	1056	1087, Sep. 9	12	11	589, Auguſt 2	Winchel.
Henry	1	1068	1100, Aug. 2	35	4	554, Decem. 1	Reding
Stephen		1105	1135, Dec. 1	18	11	535, Octob. 12	Feverſh.
The Saxon Line reſtor'd.							
Henry	2	1132	1154, Oct. 12	35	9	500, July 6	Fountever
Richard	1	1155	1189, July 6	9	9	490, April 6	Fountever
John		1165	1199, April 6	17	6	473, Octob. 19	Worceſter
Henry	3	1207	1216, Oct. 19	56	1	417, Nov. 16	Weſtmin.
Edward	1	1239	1272, No. 16	34	8	382, July 7	Weſtmin.
Edward	2	1283	1307, July 7	19	6	363, Jan. 25	Gloceſter
Edward	3	1312	1326, Jan. 25	51	5	312, June 21	Weſtmin.
Richard	2	1366	1377, Jun. 21	22	3	290, Septe. 29	Weſtmin.
The Line of Lancaſter.							
Henry	4	1367	1399, Sep. 29	13	6	276, Mar. 20	Canterb.
Henry	5	1384	1412, Mar. 20	9	5	267, Aug. 31	Weſtmin.
Henry	6	1421	1422, Aug. 31	38	6	229, Mar. 4	Windſor
The Line of York.							
Edward	4	1442	1460, Mar. 4	23	1	200, April 9	Winchest.
Edward	5	1471	1483, Apr. 9	0	1	206, June 18	Not kno.
Richard	3	1448	1483, Jun. 18	2	2	204, Aug. 22	Leiceſt.
The Families United.							
Henry	7	1455	1485, Aug. 22	23	8	181, April 22	Weſtmin.
Henry	8	1491	1509, Apr. 22	37	10	142, Jan. 28	Windſor
Edward	6	1537	1547, Jan. 28	6	5	136, Jun. 6	Weſtmin.
Qu. Mary		1518	1553, Jun. 6	5	4	131, Nov. 17	Weſtmin.
Qu. Elizab.		1533	1558, No. 17	44	4	86, March 24	Weſtmin.
The Union of the two Kingdoms.							
James	1	1566	1602, Ma. 24	22	0	64, March 27	Weſtmin
Charles	1	1600	1625, Ma. 27	23	11	40, Janu. 30	Windſor
Charles	2	1630	1648, Jan. 30	36	0	4, Februar. 6	Weſtmin.
James	2	1633	1684, Feb. 6	Whom God grant long to live.			

When *David* reign'd, as th' Scriptures do us tell,
Proud *Abſalom*, and great *Achitophel*
Did live and plot; and alſo in thoſe days
Were other Plottings, ſuch as was *Sheba's*
Conſpiracy: (Methinks in this our age,
Men much like theſe have paſſed o'er the Stage.)
As theſe did ſpeed in what they did, ſay I
Let all that ſtrive, like them to live, ſo dye.

A Table shewing the hour and minute of the Moons coming to the South every day the first six Months of this Year, 1689.

Days	Jan. H.	Jan. M.	Febr. H.	Febr. M.	March H.	March M.	April H.	April M.	May H.	May M.	June H.	June M.
1	4	M.12	4	M.48	3	M.28	4	M.49	5	M.20	6	M.30
2	4	52	5	32	4	14	5	41	6	10	7	20
3	5	30	6	17	5	4	6	33	7	0	8	10
4	6	12	7	6	5	54	7	25	7	50	9	3
5	6	56	8	0	6	44	8	17	8	42	10	2
6	7	43	8	54	7	38	9	9	9	36	11	4
7	8	31	9	48	8	33	10	1	10	32	12	7
8	9	22	10	42	9	27	10	53	11	30	1	A. 8
9	10	15	11	36	10	20	11	45	12	28	2	6
10	11	9	12	30	11	12	12	42	1	A.30	3	2
11	12	4	1	A.22	12	5	1	A.42	2	30	3	55
12	12	58	2	12	1	A. 0	2	42	3	28	4	38
13	1	A.48	3	2	1	56	3	41	4	24	5	22
14	2	37	3	54	2	52	4	41	5	17	6	5
15	3	26	4	49	3	49	5	37	6	7	6	48
16	4	16	5	46	4	46	6	30	6	52	7	30
17	5	8	6	45	5	45	7	21	7	32	8	12
18	6	0	7	42	6	44	8	9	8	12	8	54
19	6	56	8	37	7	38	8	54	8	54	9	42
20	7	54	9	32	8	30	9	33	9	38	10	32
21	8	52	10	22	9	16	10	14	10	22	11	23
22	9	49	11	10	10	0	10	56	11	7	12	15
23	10	45	11	57	10	44	11	40	11	54	0	M.15
24	11	39	12	40	11	26	12	24	12	43	1	7
25	12	30	0	M.40	12	8	0	M.24	0	M.43	2	0
26	0	M 30	1	22	0	M. 8	1	12	1	32	2	48
27	1	15	2	3	0	50	2	0	2	24	3	35
28	2	0	3	45	1	34	2	48	3	16	4	23
29	2	42			2	20	3	38	4	6	5	11
30	3	23			3	8	4	30	4	54	6	0
31	4	4			3	57			5	42		

The Moons Southing for every day of the last Six Months of this Year 1689.

Days	July H.	M.	August H.	M.	Septemb. H.	M.	October H.	M.	Novemb. H.	M.	Decemb. H.	M.
1	6	M.52	8	M.33	10	M.18	10	M.44	11	M.38	11	M.42
2	7	48	9	30	11	6	11	26	12	21	12	32
3	8	44	10	28	11	52	12	8	1	A. 7	1	A.20
4	9	42	11	26	12	37	12	52	1	55	2	10
5	10	44	12	20	1	A.21	1	A.38	2	45	3	0
6	11	44	1	A.10	2	5	2	25	3	35	3	48
7	12	45	1	54	2	48	3	13	4	23	4	33
8	1	A.40	2	36	3	34	4	2	5	10	5	18
9	2	26	3	18	4	20	4	50	6	0	6	3
10	3	10	4	2	5	9	5	38	6	46	6	48
11	3	54	4	46	6	0	6	28	7	33	7	38
12	4	38	5	32	6	50	7	18	8	23	8	34
13	5	22	6	18	7	41	8	8	9	15	9	30
14	6	6	7	8	8	32	9	0	10	10	10	29
15	6	50	8	0	9	22	9	50	11	4	11	34
16	7	35	8	52	10	12	10	40	12	2	12	38
17	8	22	9	44	11	3	11	30	0	M. 2	0	M.38
18	9	10	10	36	11	54	12	23	1	4	1	36
19	10	0	11	26	12	45	0	M.23	2	6	2	32
20	10	54	12	15	0	M.45	1	25	3	8	3	26
21	11	48	0	M.15	1	40	2	25	4	10	4	16
22	12	40	1	5	2	38	3	30	5	4	5	3
23	0	M.40	1	56	3	38	4	32	5	49	5	45
24	1	28	2	50	4	36	5	28	6	34	6	27
25	2	16	3	45	5	32	6	20	7	19	7	10
26	3	4	4	41	6	28	7	12	8	0	7	53
27	3	54	5	38	7	26	8	0	8	40	8	38
28	4	48	6	35	8	22	8	45	9	23	9	26
29	5	42	7	32	9	13	9	30	10	8	10	14
30	6	37	8	29	10	0	10	13	10	54	11	4
31	7	33	9	26			10	55			11	54

To find the time of High-water in most Coasts of England.

FIrst seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for there the South and North Moons make a High-water: But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many Hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

A Tide-Table, with the Names of the Havens.

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Ramkins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Bristol, Lanion, Foulness,	6	45
Milford, Bridgwater, North-coast,	7	30
Portland, Peterport, Hartflew,	8	15
Dover, Tarmouth, Harwich, Dublin,	10	30
Callice, Rye, Winchelsey, Calshot,	11	15

Example.

The 15. of *May*. this Year it is required to know the time of High-water at *London*: By the Tab. of the Moons Southing, over against the 15. of *May*, I find the Moon South at 6 Hours 7 Minutes in the Afternoon: Then in the preceding Tide-Table against *London*, I find 3 Hours 0 Minutes, which added to 6 Hours 7 Minutes, makes 9 Hours 7 Minutes, being the time of High-water at *London* the 15. day of *May* in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compass more at the New and Full of the Moon, than at the First and Last Quarters: as also the Latitude of the Moon and Winds, may alter it an hour sooner or later.

Directions for the ſubſequent Diary or Almanack.

IN the firſt Column to the leſt hand, on the leſt-hand Page, you have the Numerical Figures of the days of the Month.

In the ſecond Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as alſo the Moons application to the fixed Stars, by which the Aſterifms and Conſtellations may be eaſily known to an ingenious eye and underſtanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Riſing and Setting of the Moon, with reſpect to her Latitude.

In the ſixth Column the Mutual Aſpects of the Planets, with the general ſtate of the Weather.

In the firſt Column on the Right-hand Page you have the Engliſh Account.

In the ſecond Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar, and Saints days.

In the fifth Column you have Poetical Stories of the fixed Stars and Conſtellations, ſhewing the reaſon why ſuch various Figures are fancied to be placed in Heaven.

The ſixth, ſeventh, and eighth Columns, the utmoſt to the Right hand, ſhew you the daily Riſing and Setting of the Sun.

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January hath xxxi. days.

☾ Laſt quarter the 3 day, at 1 in the afternoon.
● New Moon the 11 day, at 10 in the morning.
☽ Firſt quarter the 18 day, at 8 in the morning.
○ Full Moon the 25 day, at 10 in the morning.

1	a	New years day	libr.	0	10	46			At the begin-
2	b	☽ n Spic. Vir.	libr.	12	12	0			ning windy wea-
3	c	☽ n Arcturus	libr.	24	☽ M.				ther, with an in-
4	d	☽ n. luc.Coron.	ſcor.	5	1	13			□ ♄ ☿ ✶ ♄ ☿
5	e	☽ n.luc.Col.ſer.	ſcor.	17	2	28			creaſe of cold, &
6	f	Epiphany	ſcorp.	29	3	43			about the 6th. d.
7	g	♄ ♍ 6	ſagit.	11	4	56			ſtorms of Snow
8	a	☿ ♒ 7	ſagit.	24	6	7			are expected, af-
9	b	Sol in Aquar:	capr.	7	7	4			terwards more
10	c	♂ ♐ 14	capr.	20	7	54			mild for a time,
11	d	♀ ♓ 6	aqua.	3	New ●				△ ♄ ♀ with
12	e	☿ ♍ 16	aqua.	17	5	A 22			ſome miſts and
13	f	☉ Sun. paſt Ep.	piſc.	1	6	4			hoar froſts about
14	g	☽ n. Marcab.	piſc.	14	8	15			□ ☉ ♄ the 13.d.
15	a	☽ n. Scheat	piſc.	28	9	44			But about this
16	b	☽ n. Cap. And.	aries	12	11	13			time is feared
17	c	☽ n. firſt ✶ Ar.	aries	27	12	4			♂ ☉ ♃ rough
18	d	☽ n.Au.Pe.And.	taur.	11	0	M.40			and unconſtant
19	e	☽ n. Plejades	taur.	25	2	2			weath. for ſome
20	f	☿ paſt Epiph.	gem.	5	3	34			days, which being
21	g	☽ n.Dex.hu.Au.	gem.	23	5	6			paſt, 'tis hoped
22	a	☽ n Syniſtra	canc.	7	6	12			we may have
23	b	Term begins	canc.	22	7	1			more ſeaſonable
24	c	☽ n. Aſſellus	leo	4	7	42			□ ♄ ☿ weath.
25	d	Conv. S. Paul	leo	18	Full ○				for ſome days,
26	e	☽ n. Cor leonis	virgo	1	5	A.48			but towards the
27	f	Septuageſima	virgo	13	7	4			♂ ♃ ☿ end ſtor-
28	g	☽ n. Cau.Ur.M.	virgo	26	8	20			□ ♂ ♀ my, with
29	a	☽ n. Vindemi	libr.	8	9	34			moiſture, and
30	b	K. Char. I. Mar.	libr.	20	10	45			weath. ſufficient-
31	c	☽ n. luc. Coron.	ſcorp.	1	12				ly cold.

Moons Riſing. | Moons Setting. | ☽ Riſing.

JANUARY, 1689.

Saturn riſeth between 12 and 1, and is South between 5 and 6 in the morning.
Jupiter is combuſt.
Mars riſeth between 4 and 5 in the morning.
Venus ſets between 7 and 8 in at night.
Mercury at the beginning riſe h before the Sun, at the end he is hid under the Sun beams.

English Accom.	Forei. Accompt.	Rom. Kalenda.	Rom. Sts. Days.							
1	11	D	Hyginus	Ancient Stories of ſeveral Stars and Conſtellations, collected from Dr. *Hood* and others.	1	8	7	5	55
2	12	E	Satyrius		2		5		57
3	13	F	Hillary		3		4		56
4	14	G	Felix		4		2		58
5	15	A	Maurus	*Auriga* the Waggoner or Carter, is a Conſtellation in the North, conſiſting of 14 Stars; the Arabians call him *Alhaiot*; the Greeks *Heniochus*, he is ſaid to be *Erichthonius* King of *Athens*, the Son of *Vulcan*, who having moſt deformed feet, deviſed firſt the uſe of the Waggon or Chariot, and joyn'd horſes together to draw the ſame, to the end that he ſitting therein, might the better conceal his deformities; for which invention *Jupiter* tranſlated him into the Heavens.	5		1	3	59
6	16	B	2 aft. Epiph.		6	7	59	4	1
7	17	C	Anthony		7		58		2
8	18	D	Prisca		8		57		3
9	19	E	Pontian		9		55		5
10	20	F	Fab. Seb.		10		53		7
11	21	G	Agnes		11		52		8
12	22	A	Vincent		12		50		10
13	23	B	3 paſt Epip.		13		49		11
14	24	C	Timothy		14	7	47		13
15	25	D	*Conv. S. Paul*		15		46	4	14
16	26	E	Policarp		16		44		16
17	27	F	Chryſoſto.		17		43		17
18	28	G	Car. Mag.		18		41		19
19	29	A	Samuel		19		39		21
20	30	B	4 aſt. Epiph.		20	7	38	4	22
21	31	C	Virgilius		21		36		24
22	Feb.		Bridget		22		34		26
23	2	D	Purif. Mary		23		33		27
24	3	E	Blaſe		24		31		29
25	4	F	Veronica		25	7	29	4	31
26	5	G	Agatha		26		27		33
27	6	A	Septuages.		27		25		35
28	7	B	Zachary		28		23		37
29	8	C	Salome		29		21		39
30	9	D	Apollon		30		19		41
31	10	E	Scholaſtica		31	7	17	4	43

In this Conſtellation there are two other particular Conſtellations to be noted, whereof the one conſiſteth but of one Star alone, which is in the

☾ Laſt quarter the 2 day at 11 in the morning.
● New Moon the 9 day, 30 min. paſt 11, at night.
☽ Firſt quarter the 16 day, at 5 at night.
○ Full Moon the 24 day, at 2 in the morning.

Mon. Day.	Week Da.	Feſtival & Saints days, with the ☽s application. to the noted fix'd ſtars.	The ☽s place in zodiack at Noon	The ☽ riſing fro. the full to the change, & ſetting fr. the cha. to the F.	Moons Riſing.	Moons Setting.	The mutu. Aſ. of the Plan. with the var conſt. of air & cha. of wea.
1	♃	☽ n. laux. Bor.	ſcorp. 13	0 M. 3			Cold and ſharp
2	♂	Purificat. Mary	ſcorp. 25	1 17			air at the begin-
3	☿	Sexageſim.	ſagit. 7	2 33			ning, with Snow;
4	♄	☽ n. Dex. h. Op.	ſagit. 19	3 48			afterward ſome
5	☉	♄ ☌ ♂ ℞.	capri. 2	4 50			remiſſion of cold,
6	♀	☿ ≈ 13	capri. 15	5 42			♂ ☉ ☿ yet
7	☾	♂ ♍ 4	capri. 28	6 26			windy:
8	♃	Sol in Piſces	aqua. 12	7 0			
9	♂	♀ ♈ 11	aqua. 26	New ●			Now miſt or
10	☿	Quinquageſ.	piſc. 10	5 A. 48			✶ ♄ ♂ driſſling
11	♄	☿ ♓ 7	piſc. 24	7 18			✶ ♂ ☿ △ ♄ ☿
12	☉	Term ends	aries 9	8 48			Rain is expe-
13	♀	Aſh-Wedneſday	aries 23	10 22			✶ ♃ ♀ cted,
14	☾	Valentine	taur. 8	11 56			△ ☉ ♄ after-
15	♃	☽ n. Pleiades	taur. 22	1 27			ward it is hoped
16	♂	☽ n. Aldeba.	gem. 6	1 M 27			we may have
17	☿	Quadrageſim.	gem. 20	2 55			good ſeaſonable
18	♄	☽ n. Syrvus	canc. 4	4 1c			weather for ſome
19	☉	☽ n. Pollux	canc. 17	5 0			✶ ☉ ♂ days,
20	♀	Ember week	leo 0	5 37			and perhaps no
21	☾	☽ n. Aſelli	leo 13	5 0			great alteration
22	♃	☽ n. Lions heart	leo 25	5 17			till about the Full
23	♂	☽ n. Fem. leon.	virg 9	5 32			of the Moon, then
24	☿	S. Matthias	virg. 22	Full ●			cold weather
25	♄	☽ n. Vindemiat.	libra 4	7 A. 20			with Snow or
26	☉	☽ n. Arcturus	libra 16	8 33			Sleet is expe-
27	♀	☽ n. luc. coron.	libra 28	9 48			cted.
28	☾	☽ n. Laux. Auſt.	ſcorp. 10	11			

Saturn riseth between 10 and 11 at night, and is South between 3 and 4 in the morning. *Jupiter* emergeth from the Sun-beams, and riseth before him. *Mars* riseth about 4 in the morning. *Venus* sets about 9 at night. *Mercury* is Combust.

English Accompt.	Forein Accompt.	Roman Kalendar	Roman Saints days.	Ferie, state & concept.	Poetical Stories of the Stars.	M.	D.	☊ h.	☊ m.	☋ h.	☋ m.
1	11	g	Euphrod.		the left shoulder of *Auriga*, and is call'd *Hircus* or	1	7	16	4	44	
2	12	a	Severin		*Capra* the Goat: the *Arabians* call it *Alhaioth*: The	2		14		46	
3	13	b	Sexagesi.		other consisteth of 2 little	3		12		48	
4	14	c	Valentine		Stars a little beneath the	4		10		50	
5	15	d	Fausta		other, standing as it were	5		8		52	
6	16	e	Juliana		in the hand of *Auriga*:	6		6		54	
7	17	f	Constance		This Constellat. is call'd	7		4		56	
8	18	g	Concord.		*Hædi* the Kids; the Tale	8		2		58	
9	19	a	Sabine		is thus, *Saturn* having re-	9	7	0	5	0	
10	20	b	Quinquag.		ceived of the Oracle, that	10	6	58		2	
11	21	c	Esaias		one of his Sons should put	11		56		4	
12	22	d	Shrove-tu.		him out of his Kingdom,	12		54		6	
13	23	e	Ash-wedn.		determined to devour	13		52		8	
14	24	f	S. Matthias		'em all: his Wife *Ops* by	14		50		10	
15	25	g	Victor		stealth convey'd *Jupiter*	15		48		12	
16	26	a	Cyprian		away, and sent him to *Melissus* King of *Crete*, to be	16		46		14	
17	27	b	Quadragesi.		nourish'd; *Melissus* having 2 Daughters, *Amalthæa* & *Melissa*, commited	17		44		16	
18	28	c	Macar			18		42		18	
19	Mart.	d	David			19	5	40	5	20	
20	2	e	Chad			20		38		22	
21	3	f	Cunigur		*Jupiter* unto their nursery. *Amalthæa* had a Goat	21		36		24	
22	4	g	Adrianus			22		34		26	
23	5	a	Eusebius		which gave suck unto 2	23		32		28	
24	6	b	Reminiscer.		Kids; so that by the milk	24		30		30	
25	7	c	Felicitas		of this Goat she nourish'd	25	6	28	5	32	
26	8	d	Cyprian		*Jupiter* very well. This	26		26		34	
27	9	e	Prudence		Goat	27		24		36	
28	10	f	Michæus			28		21		39	

☾ Laſt quarter the 4 day, at 7 in the morning.
● New Moon the 11 day, at 1 in the morning.
☽ Firſt quarter the 8 day, at 1 in the morning.
○ Full Moon the 25 day, 30 m. paſt 6 at night.

1	♉	☽ n. Sin.m.Op.	ſcorp. 21	12	21		Cold Rain or
2	♊	☽ n. Cor Scorp.	ſagit. 5	0 M.	21		☌ ♄ ♀ Snow
3	♋	☽ Sund. in Lent	ſagit. 15	1	36	Moons Riſing.	is expected at
4	♌	☽ n. dex. hu. O.	ſagit. 27	2	45		the beginning,
5	♍	☽ n. luc. Lyræ	capr. 10	3	40		afterwards win-
6	♎	☽ n. luc Vult.	capr. 23	4	22		dy & ſeaſonable,
7	♏	♄ ♏ 5 ℞	aqua. 6	4	58		with ſome miſts
8	♐	☿ ♒ 20	aqua. 20	5	18		or driſling Rain
9	♑	Sol in aries	piſce.	5	33		about the 8th. or
10	♒	Midlent-Sunday	piſce. 14	5	46		9th. days, elſe no
11	♓	♂ ♈ 26	aries 3	New ●			great alteration,
12	♈	♀ ♉ 16	aries 18	8 A.	2		but generall. good
13	♉	♀ ♈ 17 ℞	taur. 3	9	36		ſeaſonable weath.
14	♊	☽ n. Cap. Med.	taur. 18	11	8		with ſome brisk
15	♋	☽ n. Aldebaran.	gem. 2	12	40		□ ♃ ♀ gales of
16	♌	☽ n Athaiot	gem. 16	0 M.	40		Wind about this
17	♍	☾ Sund. in Lent	gem. 29	2	10		time, and it is
18	♎	☽ n. Ca. & Poll.	canc. 14	3	15		feared towards
19	♏	☽ n. Aſſel. us	canc. 27	3	48		the Full Moon.
20	♐	☽ n. Lyon hear.	leo 10	4	18		□ ♄ ♂ ☌ ☉ ☿
21	♑	Benedict	leo 23	4	34		Rough and ſtor-
22	♒	☽ n. Aqu. Uc. M.	virg. 6	4	48		my weather.
23	♓	☽ n. Vindemiat.	virg. 18	5	0		
24	♈	Palm Sunday	libr. 0	5	12		
25	♉	Annunti. B. M.	libr. 12	Full ○			*Moon Eclipſed.*
26	♊	☽ n Arcturus	libra 2	7 A.	47		
27	♋	☽ n. luc. Coron.	ſcorp. 6	9	6	☽ Riſing.	Alſo about the
28	♌	☽ n. luc. Col Se.	ſcorp. 18	10	20		✶ ♂ ☿ 29th.
29	♍	☽ n S n Gen. O.	ſagit. 0	11	31		day ſome ſtorms,
30	♎	☽ n. Cap. Oph.	ſagit. 12	12	40		and variety to
31	♏	Eaſter day	ſagit. 24	0 M.	4		✶ ♀ ☿ the end.

Saturn at the beginning is South between 2 and 3 in the morning, at the end he is South at 1, and then riseth about 8 at night.
Jupiter riseth about 5 in the morning.
Mars riseth about 4 in the morning.
Venus shineth till 10 at night.
Mercury at the beginning sets after the Sun, and may be seen.

English Accom.	Forein Accom.	Rom. Kalendar.	Rom. Sts. Days.								
1	11	g	Cunibert	Goat by accident breaking off her Horn against a tree, *Amalthæa* filled it with Flowers and Fruits, and presented it to *Jupit.* To requite this her care and courtesie, *Jupit.* after he had put his Father out of his Kingdom, transplated her Goat and 2 Kids into Heaven, and innobled the Horn to be the Horn of Plenty, and in remembrance of the Nurse, the Goat is call'd *Capra Amalthæa.*	16	8	42
2	12	a	Gregorius		2	16	44
3	13	b	Oculi		3	13	47
4	14	c	Eutychus		4	11	49
5	15	d	Longinus		5	8	52
6	16	e	Cyriacus		6	6	54
7	17	f	Patrick Bi.		7	4	56
8	18	g	Gabriel		8	2	58
9	19	a	Joseph		9	0	0
10	20	b	Lætare		10	58	2
11	21	c	Benedict		11	56	4
12	22	d	Paulinus		12	54	6
13	23	e	Godfridus		13	52	8
14	24	f	Quirin. Fast		14	50	10
15	25	g	An. B. V. M.		15	48	12
16	26	a	Castulus		16	46	14
17	27	b	Judica	*Ophinchus*, or *Serpentarius*, that is the Serpent-bearer. This Constellat. hath no proper name, but is thus intituled, because he holdeth a Serpent in his hands: it containeth 24 Stars; some say that it is *Hercules*, and report the Tale on this manner: *Juno* being a great Enemy of *Hercules*, sent two Snakes to kill him as he lay sleeping in his Cradle,	17	44	16
18	28	c	Gideon		18	42	18
19	29	d	Eustace		19	40	20
20	30	e	Guido		20	38	22
21	31	f	Balbina		21	36	24
22	Apr.		Theodore		22	34	26
23	2	a	Mary Egyp		23	32	28
24	3	b	Palm Sund.		24	30	30
25	4	c	Ambrose		25	28	32
26	5	d	Vincent		26	26	34
27	6	e	Sixtus		27	24	36
28	7	f	Cœlestin		28	22	38
29	8	g	Dionysius		29	20	40
30	9	a	Albinus		30	18	42
31	10	b	Pascha		31	16	44

☽ Laſt quarter the 2 day, at 11 at night.
● New Moon the 9 day, at 30 min. paſt 6 at night.
☽ Firſt quarter the 16 day, 40 min. paſt 11 in the morn.
○ Full Moon the 24 day, 30 m. paſt 11 in the morn.

1	g	☽ n. luc. Lyræ	capri.	6	1	M.	43	Moons Riſing.	Seaſonable and good weather at the beginning, ✶ ☉ ♆ with driſing Rain about the 5th. day, and about the New Moon ſhowers of Rain are expected; alſo cold ♂ ☉ ♄ and moiſt weather theſe days, afterwards more pleaſant and warmer weather, and 'tis hoped may continue without much alteration till the 24th. or 25th. days, then expect △ ♃ ♀ ♂ ♆ ♂ briſk Winds, and ſhowers of Rain, and plenty thereof. △ ♄ ♀ △ ♄ ♂ △ ♂ ♀
2	a	☽ n. Caud. Vult.	capri.	18	2		30		
3	b	☽ n. luc. vult.	aqua.	1	2		0		
4	c	☽ n. left. ſh. ♒	aqua.	14	3		24		
5	d	☽ n. Dex. hu. ♒	aqua.	28	3		47		
6	e	☽ n. Marchab.	piſce.	12	4		1		
7	f	Low Sunday	piſce.	26	4		13		
8	g	♄ ♏ 3 ℞.	aries	11	4		23		
9	a	Sol in Taurus	aries	26	New	●			
10	b	♃ ♒ 26	taur.	11	8	A.	45		
11	c	♂ ♒ 18	taur.	26	10		2		
12	d	♀ ♊ 18	gem.	11	11		45		
13	e	♀ ♈ 8 D.	gem.	26	12		58		
14	f	2. paſt Eaſter	canc.	10	☽	M.	58	Moons Setting.	
15	g	☽ n. Procyon	canc.	24	1		5		
16	a	☽ n. Aſſelli	leo	7	2		24		
17	b	Term begins	leo	20	2		42		
18	c	☽ n. Femor. leo	virg.	3	3		1		
19	d	☽ n. luc. cau. leo	virgo	16	3		16		
20	e	☽ n. Vindemiat.	virg.	27	3		26		
21	f	3 paſt Eaſter	libra	9	3		37		
22	g	☽ n. Spica Virg.	libra	21	3		47		
23	a	S. George	ſcorp.	3	3		58		
24	b	☽ n. lu. Col. Ser.	ſcorp.	15	Full	○			
25	c	St. Mark	ſcorp.	27	☽	A.	24	☽ Riſing.	
26	d	☾ n. Antares	ſagit.	9	10		40		
27	e	☽ n. dex. hu. ♐ p.	ſagit.	21	11		42		
28	f	4 paſt Eaſter	capr.	3	12		34		
29	g	☽ n. Caud. Vul.	capri	15	☽	M.	32		
30	a	☽ n. luc. Vult.	capr.	28	1		10		

Saturn is South about mid-night, and sets about Sun-rise. *Jupiter* and *Mars* at the end of the month rise very near together, between 2 and 3 in the morning. *Venus* sets not till after 11 at night all this month: the 12 day sets with the Moon. *Mercury* riseth a little before the Sun.

English Accom	Forein. Accom	Rom. Kalendar	Rom. St. days	
1	11	f	Leo, Pap.	dle; but *Hercules* being a
2	12	g	July Rish.	lusty Child (for *Jupiter*
3	13	a	Justinus	had spent 2 days in get-
4	14	b	Tiburtius	ting him) without much
5	15	c	Olympia	ado strangled them both:
6	16	d	Carisius	In memorial of so strange
7	17	e	Quasimod.	an event, *Jupiter* plac'd
8	18	f	Apollon.	him in the Heavens with
9	19	g	Timothy	a Serpent in his hands.
10	20	a	Sulpitius	*Serpens* the Serpent of
11	21	b	Adelarius	*Ophiurbus*, it consisteth of
12	22	c	Emanuel	18 Stars, some say that it is
13	23	d	S. George	one of the Serpents that
14	24	e	Misericord.	should have slain *Hercules*
15	25	f	S. Mark	in his cradle. Others thus,
16	26	g	Cletus	*Glaucus* the Son of *Minos*,
17	27	a	Anastasius	King of *Crete*, was by mis-
18	28	b	Vitalis	fortune drown'd in a Bar-
19	29	c	Sybilla	rel of Honey; *Minos* his
20	30	d	Josua	Father did crave help of
21	May	e	S. Phil. & Ja.	*Æsculapius* the Physitian,
22	2	f	Athanasius	and that he might be dri-
23	3	g	Inv. Crucis	ven per-force to help the
24	4	a	Florian	Child, he shut him up in a
25	5	b	Gothard	secret place together with
26	6	c	Jo. à Port	the dead Carcase, whilst
27	7	d	Juvenal	*Æsculapius* stood in a
28	8	e	Cantate	maze with himself what
29	9	f	Hrobe	were best to be done.
30	10	g	Pancratius	Upon

1	5	14	6	46
2		12		48
3		10		50
4		8		52
5		6		54
6		4		56
7	5	2	6	58
8	5	0	7	0
9	4	58	7	2
10		56		4
11		54		6
12		52		8
13		50		10
14		48		12
15		46		14
16	4	44	7	16
17		42		18
18		41		19
19		39		21
20		37		23
21		36		24
22		34		26
23		33		27
24		31		29
25	4	30	7	30
26		28		32
27		26		34
28		25		35
29		23		37
30	4	21	7	39

☾ Laſt quarter the 2 day, at 10 in the morning.
● New Moon the 9 day, at 2 in the morning.
☽ Firſt quarter the 15 day, at 11 at night.
○ Full moon the 24 day, at 2 in the morning.
☾ Laſt quarter the 31 day, at 8 at night.

1	b	S. Phil. & Jacob	aqua.	10	M.	36			Expect miſty
2	c	☽ n. Os, Pegaſ.	aqua.	2	1	54			✶ ☿ ♀ mor-
3	d	☽ n. Ex. Al. Peg.	piſces		2	8			♂ ♄ ☿ nings
4	e	☽ n. March. b.	piſces	21	2	21			and driſling Rain
5	f	☽ paſt Eaſter	aries		2	35			△ ♂ ♀ at the
6	g	☽ n. firſt ✶ ♈	aries	29	2	50			✶ ☽ ☿ ☿ begin-
7	a	☽ n. Au. Pe. An.	taur.	5	3	5			✶ ♂ ☿ ☿ ning,
8	b	☽ n. Pleiades	taur.	20	3	20			and other whiles
9	c	Aſcenſio Dom.	gem.	5	New	●			briſk gales of
10	d	Sun in Gemini	gem.	20	10	A 48			□ ☉ ♃ Wind.
11	e	☽ n. Syrius	canc.	5	11	5			Now 'tis hoped
12	f	☽ paſt Eaſter	canc.	19	12	30			we may have
13	g	Term ends	leo	3	☽	M. 30			good ſeaſonable
14	a	♄ ♏ ☿ ℞	leo	16	☽	52			weather, and that
15	b	♃ ♓ ☉	leo	29	1	10			it may continue
16	c	♂ ♓ ♊	virg.	12	1	22			without much al-
17	d	♀ ♋ 10	virg.	24	1	31			teration, (except
18	e	♀ ♉ 27	libra	6	1	47			△ ♄ ♃ ſome
19	f	Whitſunday	libra	18	2	0			briſk Winds) till
20	g	☽ n. luc. Coron.	ſcorp.	0	2	12			□ ♃ ♀ about
21	a	☽ n. laux. Auſt.	ſcorp.	12	2	24			the 22. day, then
22	b	Ember week	ſcorp.	24	2	37			(if I miſtake not)
23	c	☽ n. Antares	ſagit.	6	2	5			beginneth windy
24	d	☽ n. dex. hu. Op.	agit.	18	Full	●			and ſhowery
25	e	☽ n. luc. Lyr.	capr.	0	10	A. 30			weather, which
26	f	Trinity Sunday	capr.	12	11	8			may continue
27	g	☽ n. luc. Vult.	capr.	25	11	38			♂ ☉ ♀ for
28	a	☽ n. ſin. hu. Aq.	aqua.	7	11	56			ſome days, with
29	b	K. Charl. II. N. & R.	aqua.	20	12	14			□ ♂ ♀ miſty
30	c	☽ n. Ex. al. Peg.	piſces		☽	M. 14			mornings toward
31	d	Term begins	piſc.	16	☽	35			the end.

Moons Riſing. | Moons Setting. | ☽ Riſing.

Saturn is South between 9 and 10 at Night, and sets about 3 in the Morning. Jupiter *riseth about 1 and 2 in the Morning.* Mars *riseth about 2 in the Morning.* Venus *at the beginning sets after 11 at Night, at the end she sets at 10 at Night.* Mercury *at the end is Combust.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	e	Christian	upon a sudden there came	1	4	19	7	4	
2	12	f	Gordian	a Serpent creeping to-	2		17		43	
3	13	g	Servatius	wards him, the which Ser-	3		15		45	
4	14	a	Fortuna	pent he slew with a Staff	4		14		46	
5	15	b	Rogatio S.	that he had in his hand.	5		12		48	
6	16	c	Peregrin	After this there came ano-	6		10		50	
7	17	d	Jodocus	ther Serpent in, bringing	7		9		51	
8	18	e	Venant	in his Mouth a certain	8	4	8	7	52	
9	19	f	Ascen. D.	Herb, which he laid upon	9		6		54	
10	20	g	Bernard.	the Head of the dead Ser-	10		5		55	
11	21	a	Prudent.	pent, whereby he restored	11		3		57	
12	22	b	Exaudi	him unto life again; *Æs-*	12		2		58	
13	23	c	Desider.	*culapius* using the same	13		1	7	55	
14	24	d	Esther	Herb, wrought the same	14	4	0	8	0	
15	25	e	Urbanus	effect upon *Glaucus*; where-	15	3	59	8	1	
16	26	f	Edward	upon *Æsculapius* (whom	16		58		2	
17	27	g	Beda V.	some affirm to be *Ophin-*	17		57		3	
18	28	a	Wilhelm	*chus*) was (sometime after)	18		55		5	
19	29	b	Pentecost	placed in the Heaven, and	19		54		6	
20	30	c	Wigand	the Serpent with him	20		53		7	
21	31	d	Petronel	*Sagitta*, or *Telum*, the	21		52		8	
22	June	e	Nicomed	Arrow or Dart: This was	22		51		9	
23	2	f	Marcellin.	that Arrow wherewith	23		50		10	
24	3	g	Erasmus	*Hercules* slew the Eagle or	24		49		11	
25	4	a	Quirinus	Gripe, that fed upon the	25	3	48	8	12	
26	5	b	Trin. Sund.	Liver of *Prometheus*, being	26		47		13	
27	6	c	Artemid	tied with Chains to the	27		46		14	
28	7	d	Paul Ep.	top of the Hill *Caucasus*,	28		45		15	
29	8	e	Corp Chr	and in memorial of that	29		45		15	
30	9	f	Medard	deed was translated into	30		44		16	
31	10	g	Onufrius	Heaven. Others	31	3	44	8	16	

New Moon the 7 day, at 8 in the morning.
First Quarter the 14 day, at 6 in the afternoon.
Full Moon the 22 day at 20 min past 4 in the afternoon.
Last Q. after the 30 day, at 1 in the morning.

1	ɛ	☽ n. Can. Cetl	aries	00	M	46		
2	☌	1 S. past Trin.	aries	14	1	2		
3	g	☽ n. pr. ✶ Arie.	aries	29	1	18		
4	a	☽ n. Aust. P An	taur.	13	1	34		
5	b	☽ n. Pleiades	taur.	28	1	50		
6	c	☽ n. Alhaiot	gem.	13	2	8		
7	d	☽ n. dex. hu. Aur	gem.	28	New	●		
8	ɛ	☽ n. Cast & Pol.	canc.	13	10	A. 21		
9	☌	2 S. past Trinity	canc.	28	10	52		
10	g	☽ n. Cor. Leon.	leo	12	11	13		
11	a	St. Barnabas	leo	25	11	26		
12	b	♄ ☍ o. S.	virgo	8	11	38		
13	c	♃ ☌ 1 R.	virgo	21	11	49		
14	d	♂ ♈ 2.	libr.	3	12	0		
15	ɛ	♀ ♋ 2. R.	libr.	15	0	M. 0		
16	☌	3 S. past Trin.	libr.	27	0	12		
17	g	☿ ♋ 28.	scorp.	8	0	24		
18	a	☽ n. Coll. Serp.	scor.	20	0	36		
19	b	Term ends	sagit.	2	0	48		
20	c	☽ n. Cap. Oph.	sagit.	14	1	10		
21	d	☽ n. luc. Cap. D.	sagit	26	1	44		
22	ɛ	☽ n. luc. Lyr.	capr.	9	Full	●		
23	☌	4 S. past Trinity	capr.	22	9	A. 38		
24	g	St. Jo. Baptist	aqua.	4	10	2		
25	a	☽ n. Sin hu. ♒	aqua.	17	10	21		
26	b	☽ n. Ex. Al. Peg.	pisces	0	10	35		
27	c	☽ n. Marchab.	pisces	13	10	46		
28	d	☽ n. Can. Cetl	pisces	27	10	57		
29	ɛ	S Pet. & Paul	aries	10	11	8		
30	☌	5 S. past Trinity	aries	24	11	21		

Moons Rising. — Moons Setting. — Moons rising.

How weather ar
△ ♄ ☿ the
△ ♃ ☽ begin-
ning, with some
☌ ♀ ☿ showers
of Rain about this
time; But after the
New Moon season-
able weather for
△ ☉ ♄ some
□ ☉ ☌ △ ☉ ♃
days. Now expect
☌ ☉ ♀ show-
☐ ♃ ♀ ers of
Rain with Thunder,
△ ♃ ♀ and
other whiles brisk
□ ♄ ☿ gales of
△ ♄ ♀ Wind
with showers, which
being past, 'tis hop-
ed we may have
good seasonable
weather for some
△ ☌ ☿ days,
with misty Morning
about the 25th or
26th days, also an
increase of heat is
now expected.

Saturn *at the beginning sets between* 1 *and* 2 *in the morning, at the end he sets before midnight.*
Jupiter *rises between* 11 *and* 12 *at night.*
Mars *rises about midnight.*
Venus *is Combust all the midst of the month.*
Mercury *sets after the Sun.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints &c.								
1	11	a	St. Barnab	Others will have it to be	1	3	44	8	16
2	12	b	3 p. Trin.	one of those Arrows	2		43		17
3	13	c	Cyrillus	which *Hercules* at his death	3		43		17
4	14	d	Valerius	gave unto *Philoctetes*, upon	4		42		18
5	15	e	Vitus	which the destiny of *Troy*	5		42		18
6	16	f	Rulandus	did depend: This Constel-	6		42		18
7	17	g	Volumn	lation containeth 5 Stars.	7		42		18
8	18	a	Homer	*Delphinus*, the *Dolphin*;	8		41		19
9	19	b	4 p. Trin.	it containeth 10 Stars	9		41		19
10	20	c	Regina	The tale goeth thus con-	10		41		19
11	21	d	Albanus	cerning this Constellation,	11	3	41	8	19
12	22	e	Achatius	When *Neptune* the god of	12		41		19
13	23	f	Basilius	the Sea, greatly desired to	13		41		19
14	24	g	St. Jo. Bapt.	match with *Amphitrite*. She	14		41		19
15	25	a	Elogius	she being very modest	15		42		18
16	26	b	5 p. Trin.	and shame-faced, hid her	16		42		18
17	27	c	7 Derm.	self, whereupon he sent	17		42		18
18	28	d	Leo. P. *Fast*	many Messengers to seek	18		42		18
19	29	e	S. Pet. & P.	her out, among whom the	19		43		17
20	30	f	Conv. Paul	*Dolphin*, by his good hap	20	3	43	8	17
21	July		Theobald	did first find her; and	21		44		16
22	2	a	Visit. V. M.	perswaded her also to	22		44		16
23	3	b	6 p. Trin.	match with Neptune: For	23		44		16
24	4	c	Ulricus	which his good and trusty	24		45		15
25	5	d	Anselm	service *Neptune* placed him	25		45		15
26	6	e	Hector	in the Heavens. Others	26		46		14
27	7		Demetrius	say, that when *Bacchus* had	27		47		13
28	8		Chillan.	transformed the Mariners	28		48		12
29	9	g	Cyrillus	that would have betrayed	29		49		11
30	10	a	7 p. Trin.	him, into *Dolphins*, he pla-	30	3	50	8	10

● New Moon the 6 day, at 6 at night.
☽ First Quarter the 14 day, at 1 in the morning.
○ Full Moon the 22 day, at 4 in the morning.
☾ Last Quarter the 29 day, at 6 in the morning.

1	g	☽ n. Aut. P. And.	taur.	8	11	40		Good Hay weather
2	a	☽ n. Pleiades	taur.	23	12	3	☽ Rising.	is expected at the
3	b	☽ n. Aldeberan.	gem.	8	0 M	3		beginning, there-
4	c	☽ n dex. hu. An.	gem.	22	0	31		fore make Hay
5	d	☽ n. Syrius	canc.	7	1	20		while the Sun doth
6	e	☽ n. Procyon.	canc.	22	New ●			shine. Hot and sultry
7	f	6 S. past Trinity	leo	6	9 A	8		△ ♄ ♃ with
8	g	☽ n. Cor Leonis	leo	20	9	28		some drops of Rain,
9	a	♄ ♍ 0 D.	virgo	3	9	43		yet generally seasen-
10	b	♃ ♓ 0 R.	virgo	16	9	55		able, and no great
11	c	♂ ♈ 19	virgo	29	10	c		alteration till the
12	d	Sol in Leo	libr.	11	10	1c		□ ☉ ♄ 15th or
13	e	♀ ♊ 25 D.	libr.	23	10	28	Moons setting.	16th days, then
14	f	7 S. past Trinit.	scorp.	5	10	39		expect some showers
15	g	☿ ♌ 24 S.	scorp.	17	10	5c		within.
16	a	☾ n. dex. m. Oph.	scorp.	29	11	14		of Rain, with brisk
17	b	☽ n. Cap. Oph.	sagit.	11	11	41		gales of Wind; af-
18	c	☽ n. luc. Cap Dr.	sagit.	23	12	2c		wards seasonable
19	d	☽ n. Luc. Lyræ	capr.	5	0 M	2c		△ ♂ ☿ weather
20	e	☽ n. Can. Vult.	capr.	17	1	14		for some days; but
21	f	8 S. past Trinity	aqua.	c	2	26		△ ♃ ♀ about
22	g	☽ n. sinist. hu. ♒	aqua.	13	Full ○			the Full Moon some
23	a	☽ n. dex. hu. ♒	aqua.	26	8 A	28		Mists or drissling
24	b	☽ n. Marchab.	pisces	10	8	4c	Moons rising.	Rain, and hot wea-
25	c	St. James	pisces	24	8	54		△ ♄ ♀ ther for
26	d	☽ n. Cap. Andr.	aries	7	9	1c		some days; and pro-
27	e	☽ n. prim. ✶ Ar.	aries	21	9	28		bably towards the
28	f	9 S. past Trinity	taur.	5	9	48		✶ ♃ ♂ end
29	g	☽ n. Cap. Med.	taur.	19	10	12		some Wind and
30	a	☽ n. Aldebaran	gem.	4	10	4c		♂ ☉ ☿
31	b	☽ n. Alhaiot	gem.	18	11	2c		Rain.

Saturn at the beginning sets between 11 and 12; at the end he sets between 9 and 10 at Night.

Jupiter rises about 9 at night, and is South about 2 in the morning. Mars rises between 10 and 11 at night. Venus having emerged from the Sun beams, riseth before him. Mercury at the end goeth to Combust.

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	c	Pius	ced one of them in Hea-	1	3	51	8	9
2	12	d	Henricus	ven, that it might be a	2		52		8
3	13	e	Margaret	Lesson for others to take	3		53		7
4	14	f	Bonavent.	heed how they carried	4		54		6
5	15	g	Swithin	any out of their way, con-	5		55		5
6	16	a	Hillarius	rary both to his desire	6		56		4
7	17		6 p. Trin.	and their own promise.	7		58		2
8	18	c	Maternus	*Andromeda*, she consist-	8	3	59	8	1
9	19	d	Ruffina	eth of 23 Stars; but one	9	4	0	8	0
10	20	e	Elias	of them is common both	10		1	7	59
11	21	f	Daniel	unto her and *Pegasus*. This	11		3		57
12	22	g	Mary Mag.	was the Daughter of *Ce-*	12		5		55
13	23	a	Apollin	*pheus* and *Cassiopeia*, King	13		6		54
14	24		7 p. Trin.	and Queen of *Æthiopia*.	14		7		53
15	25	c	St. James	She for her Mothers Pride,	15		9		51
16	26	d	Anna	that would contend with	16		10		50
17	27	e	Martha	the *Nereides* or Nymphs of	17		11		49
18	28	f	Panthal.	the Sea, in beauty, was by	18		13		47
19	29	g	Beatrice	them bound to a Rock,	19		14		46
20	30	a	Abdon	and there exposed to a Sea-	20	4	16	7	44
21	31		8 p. Trin.	Monster, to have been de-	21		17		43
22	Aug.		Lammas	voured; but *Perseus* espying	22		19		41
23	2	d	Moses	her, slew the Monster, and	23		20		40
24	3	e	Dominic.	married the Lady. At last	24		22		38
25	4	f	Aristarch.	*Minerva* placed her among	25		24		36
26	5	g	Oswaldus	the Constellations.	26		25		35
27	6	a	Sixtus	*Cetus*, the Whale: This	27		27		33
28	7		9 p. Trin.	is that monstrous Fish that	28		29		31
29	8	c	Ladislaus	should have devoured *An-*	29		31		29
30	9	d	Roman.	*dromeda*; but being over-	30	4	33	7	27
31	10	e	Lawrence		31		35		25

● New Moon the 5 day, at 3 in the morning.
☽ Firſt Quarter the 12 day, at 11 at night.
○ Full Moon the 10 day, at 4 in the afternoon.
☾ Laſt Quarter the 27 day, at noon.

1	c	Lammas	canc.	2	12	0	♈	At the beginning
2	d	☽ n. Caſt. & Pol.	canc.	16	0	M 0		ſeaſonable and good
3	e	☽ n. Aſellus	leo	0	1	22		weather; but ſo
4	f	10 S. paſt Trin.	leo	14	2	56		changeth to ſhow
5	g	☽ n. Cor. Leon.	leo	28	New	●		ers; alſo high Winds
6	a	☿ ♍ 1	virg.	11	8	A 0		♂ ♄ ♂ and
7	b	☾ ♎ 26 R.	virg.	24	8	12		ſtormy weather i
8	c	☽ ♂ 2	libra	7	8	24		♂ ☉ ♃ expecte
9	d	♀ ♉ 11	libr.	19	8	36		for ſome days; bu
10	e	S. Lawrence	ſcorp.	1	8	48	Moon Setting.	after the 12 day i
11	f	11 S. paſt Trin.	ſcorp.	13	9	1		is hoped we may
12	g	Sol in virgo	ſcorp.	25	9	17		have more ſeaſona
13	a	☿ ☊ 13 D.	ſagit.	7	9	42		ble weather, until
14	b	☽ n. dex. hu Op.	ſagit.	18	10	17		☌ ☉ ♄ toward
15	c	☽ n. Cap. Drac	capr.	0	11	2		the Full Moon,
16	d	☽ n. luc. Lyræ	capr.	13	12	10		then expect miſty
17	e	☽ n. Luc. Vult.	capr.	25	0	M 12		♎ ♋ ♂
18	f	12 S. paſt Trin.	aqua.	8	1	28		Mornings, with
19	g	☽ n. ſin. hu. ♒	aqua.	2	2	54		ſhowers of Rain;
20	a	☽ n. dex. hu ♒	piſces	5	Full	○		and after the Full
21	b	☽ n. Marchab.	piſces	19	7	A 14		high Wind, and
22	c	☽ n. Caud. Cet.	aries	3	7	27		moiſt Air for ſome
23	d	☽ n. Clog. And.	aries	17	7	41	Moon riſing.	♂ ♃ ♀ days,
24	e	St. Bartholom.	taur.	2	7	56		which being paſt we
25	f	13 S. paſt Trin.	taur.	16	8	16		hope for good ſea
26	g	☽ n. Aldebaran	gem.	0	8	46		ſonable weather to
27	a	☽ n. Alhaiot	gem.	14	9	22		the end of the
28	b	☽ n. dex. hu Au.	gem.	28	10	8		✶ ♄ ♀
29	c	☽ n. Caſt. & Pol.	canc.	12	11	20		Month.
30	d	☽ n. Aſelli	canc.	26	12	50		♎ ♂ ♀
31	e	☽ n. Baſiliſcus	leo	10	0	M 50		

Saturn *sets between* 8 *and* 9 *at night.*
Jupiter *is South about midnight.*
Mars *rises bitwen* 9 *and* 10 *at night, and is South about* 4 *in the morning.*
Venus *rises betwe.n* 1 *and* 2 *in the morning.*
Mercury *riseth before the Sun.*

Eccl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Calar. da.							
1	11	f	Vitus	come by *Perseus*, was after-	1	4	37	7	23
2	12	g	Clara	wards translated into Hea-	2		39		21
3	13	a	Hyppolit	ven by *Jupiter*, as well for	3		41		19
4	14	♎	10 p.Trin.	a token of *Perseus* his Man-	4		42		18
5	15	c	Assump M.	hood, as for the hugeness	5		44		16
6	16	b	Rochus	of the Fish it self; This	6		46		14
7	17	c	Agapitus	Constellation consisteth of	7		48		12
8	18	f	Helena	22 Stars.	8		50		10
9	19	g	Sebaldus	*Flavius*, the River; It	9	4	52	7	8
10	20	a	Bernard	comprehendeth 34 Stars:	10		54		6
11	21	♎	11 p.Trin.	it is called by some *Eri-*	11		56		4
12	22	c	Symphor	*danus*, or *Padus*; and they	12		58		2
13	23	d	Zacharus	say, that it was placed in	13	5	07		0
14	24	e	St.Barthol.	Heaven in remembrance of	14		16		59
15	25	f	Ludovic.	*Phaeton*, who having set	15		3		57
16	26	g	Irenæus	the whole World on fire,	16		5		55
17	27	a	Gebhard	by reason of misguiding	17		7		53
18	28	♎	12 P.Trin.	his Father *Phœbus*'s Chari-	18		8		52
19	29	c	Decol. J.B.	ot, was slain by *Jupiter*	19		10		50
20	30	d	Fœlix P.	with a Thunder-bolt, and	20	5	12	6	48
21	31	e	Paulinus	tumbling down from Hea-	21		14		46
22	Sept.	f	Ægidius	ven, fell into the *Eridanus*	22		16		44
23	2	g	Rachel	or *Padus*, which the *Itali-*	23		18		42
24	3	a	Euphem	*ans* call *Po*. Others say,	24		20		40
25	4	♎	13 P.Trin.	that it is *Nilus*, and that	25	5	22	6	38
26	5	c	Zachary	that Figure was placed in	26		24		36
27	6	d	Magnus	Heaven, because of the	27		26		34
28	7	e	Regina	excellency of the River,	28		28		32
29	8	f	Nat. V.M.	which by the Divines is cal-	29		31		29
30	9	g	Kunigur	led *Gihon*, and is one of	30		34		27
31	10	a	Sosthenes		31	5	35	6	25

September hath xxx. days.

● New Moon the 3 day, 30 min. past 3 in the afternoon.
☽ First Quarter the 11 day, at 5 in the afternoon.
○ Full Moon the 19 day, 40 min. past 2 in the morning.
☾ Last Quarter the 25 day, at 7 at night.

1		14 past Trinity	leo	23	2	16		☐ ♄ ♀ Windy
2	g	☽ n. R Ur.M.	virg.	6	3	42		weather is expected
3	a	♃ ♏ 4.	virg.	19	New ●			at the beginning,
4	b	♃ ♒ 23 R.	libr.	2	6 A	34		with some showers
5	c	♂ ♉ 7 R.	libr.	15	6	47		☐ ♂ ♀ of Rain,
6	d	♂ ♌ 8	libr.	27	7	0		and about the 8th
7	e	♂ ♍ 22	scorp.	9	7	15		or 9th days some
8	f	15 S. past Trin	scor.	21	7	33	Moons Setting	brisk cooling gale of
9	g	☽ n. Cor. Scorp.	sagit.	5	7	54		Wind, afterwards
10	a	☽ n. dex. hu. Op.	sagit.	13	8	20		good seasonable
11	b	☽ n. Cap. Draco.	sagit.	27	9	6		weather, and 'tis
12	c	Sol in Libra	capr.	9	10	4		☌ ☉ ☿ hoped
13	d	☽ n. luc. Vult.	capr.	21	11	14		it may continue
14	e	☽ n. sin. hu. ♒	aqua.	3	12	35		without much alte-
15	f	16 S. past Trin.	aqua.	16	0 M	35		ration, (except some
16	g	☽ n. dex. hu. ♒	pisces	0	2	0		misty Mornings, or
17	a	☽ n. Marchab.	pisces	14	3	26		drisling Rain) till
18	b	Ember Week	pisc.	28	4	54		☍ ☿ ♀ after
19	c	☽ n. Cap. Andr.	aries	12	Full ●			Moon Eclipsed.
20	d	☽ n. pr. ☿ Aries	aries	27	6 A	14		the Full Moon; then
21	e	S. Matthew	taur.	11	6	30		expect some Wind
22	f	17 S. past Trin.	taur.	26	6	48	Moons Rising.	☍ ♄ ♂ and
23	g	☽ n. Alhaiot	gem.	11	7	20		showers for some
24	a	☽ n. dex hu. Ar.	gem.	25	8	12		△ ♃ ☿ days;
25	b	☽ n. Syrius	canc.	9	9	20		but toward the end
26	c	☽ n. Cast & Pol.	canc.	23	10	42		of the Month more
27	d	☽ n. Aselli	leo	7	12	4		temperate weather
28	e	☽ n. Cor. leonis	leo	20	0 M	4		is expected.
29	f	St. Michael	virg.	3	1	25		△ ♃ ♂
30	g	☽ n. ul. Ca. Ur. M	virg.	6	2	46		

Saturn *sets about* 7 *at night.* Jupiter *is South between* 9 *and* 10 *at night, and sits about two in the morning.* Mars *rises between* 7 *and* 8 *at night, and is South about* 2 *in the morning.* Venus *riseth about* 2 *in the morning.* Mercury *is under the Sun beams, and combust.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	d	♎	14 p. Trin.	the Rivers of Paradice.	1	5	37	6	23
2	12	e		Tobias	Others call it *Finmen Orionis*, the Flood of *Orion*,	2		39		21
3	13	f		Amatus	and say it was placed there	3		41		19
4	14	g		Exalt. Cr.	to betoken the Off-spring	4		43		17
5	15	a		Nicomed.	from whence *Orion* came.	5		45		15
6	16	b		Euphem.		6		47		13
7	17	c		Lambert	*Lepus*, the Hare; This	7		49		11
8	18	d	♎	15 p. Trin.	consisteth of 12 Stars, and	8		51	6	9
9	19	e		Januarius	was placed in Heaven be-	9		53		7
10	20	f		Fausta	tween the Legs of *Orion*,	10	5	55		5
11	21	g		S. Matthew	to signifie the great de-	11		58		2
12	22	a		Maurice	light in his life time; but	12	6	0	6	0
13	23	b		Joel	had in his life time; but	13	6	2	5	58
14	24	c		Rupert	others think that it was a	14		4		56
15	25	d	♎	16 p. Trin.	frivolous thing to say, that	15		6		54
16	26	e		Cyprian	so notable a Fellow as *Orion*	16		8		52
17	27	f		Judith	would trouble himself	17		10		50
18	28	g		Wenceslaus	with so small and timorous	18		12		48
19	29	a		S. Michael	a Beast as the Hare, and	19		14		46
20	30	b		Jerome	therefore they tell the	20	6	16	5	44
21	31	c		Remigius	Tale thus: In times past	21		18		42
22	2	d	♎	17 p. Trin.	there was not a Hare left	22		20		40
23	3	e		Simplic.	in the Isle *Leros*; a certain	23		22		38
24	4	f		Francisc.	youth therefore of that	24		24		36
25	5	g		Fides	Island being very desirous	25	6	26	5	34
26	6	a		Aurelia	of that kind of Beast,	26		28		32
27	7	b		Spes	brought with him from	27		30		30
28	8	c		Pelagia	another Country thereabout an Hare great with	28		32		28
29	9	d	♎	18 p. Trin.		29		34		26
30	10	e		Gideon	young;	30	6	36	5	24

● New Moon the 3 day, at 7 in the morning.
☽ First Quarter the 11 day, 30 min. past 11 in the morning.
○ Full Moon the 18 day, at 11 at night.
☾ Last Quarter the 25 day, at 4 in the morning.

1	f	☽ n R.C.Urſ.M	virg.	28	4		6		♂ ♂ ♀	Cold
2	g	☽ n. ſin.hu. Boo	libra	11	5		28		✶ ♄ ♀	Winds,
3	a	☽ R Arifta	libra	23	New	●		—	♂ ♄ ☿	with
4	b	☽ n.luc.Coron.	ſcorp.	5	5	A	30		△ ☉ ♃	Rain,
5	c	☽ n.luc.Col.Ser.	ſcor.	17	5		48			and great variety of
6	d	Virg S.paſt Trin	ſcorp.	29	6		7			weather till after the
7	e	♄ ♏ 7	ſagit.	11	6		27			6th day, then 'tis
8	f	♃ ♒ 21 St.	ſagit.	23	7		0			hoped it will be
9	g	♂ ♉ 0 R.	capr.	5	7		54			more ſeaſonable for
10	a	♀ ♍ 16	capr.	17	9		0		✶ ♀ ♀	ſome
11	b	☿ ♏ 17	capr.	29	10		20			days. And probably
12	c	Sol in Scorp.	aqua.	11	11		42		♂ ☉ ♂	about the
13	d	20 S.paſt Trin	aqua.	24	1		6			13 h day ſome miſty
14	e	☽ n.Fomalhut	piſces	8	1	M	6		□ ♃ ♂	and foggy
15	f	☽ n. Marchab.	piſces	21	2		33			weather, afterward
16	g	☾ n.Cap. Andr.	aries	5	4		2			windy and wet wea-
17	a	☽ n.Cap And.	aries	20	5		32			ther for ſome days;
18	b	St. Luke	taur.	5	Full	○		—		and after the Full
19	c	☽ n. Pleiades	taur.	20	5	A	0			Moon we may ex-
20	d	21 S.paſt Trin.	gem.	5	5		26			pect cold. cloudy,
21	e	☽ n Alnaſor	gem.	20	5		8		♂ ☉ ♄	and dark
22	f	☽ n. Syrius	canc.	5	7		8			weather, which be-
23	g	Term begins	canc.	19	8		30			ing paſt we then
24	a	☽ n. Aſelli	leo	3	9		56			hope for more plea-
25	b	Criſpin	leo	17	11		23			ſant and ſeaſonable
26	c	☽ n.R C.Urſ.M.	virg.	0	12		50			weather, and that it
27	d	22 S.paſt Trin.	virg.	12	1	M	50			may continue with-
28	e	St. Sim. & Jude	virg.	25	2		12			out any conſiderable
29	f	☽ n Vindemiat	libra	7	3		30			alteration till the
30	g	☽ n. Spic Virg	libra	20	4		42			end of the Month.
31	a	☽ n.luc. Coron	ſcorp	2	5		54		✶ ♀ ☿	

Moons Southings.

Moons Rising.

Saturn *is hid under the Sun Beams, and toward the end he is Combust.* Jupiter *is South between 7 and 8 at night, and sets about midnight.* Mars South *about midnight.* Venus *rises between 3 and 4 in the morning.* Mercury *emergeth from the Sun beams, and sets after him.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints d.								
1	11	♄	Burchard	young; which when she	1	6	38	5	22
2	12	☉	Walfride	had brought forth, they in	2		40		20
3	13	☽	Telemach	time became so acceptable	3		42		18
4	14	☿	Calistus	unto the other Country	4		44		16
5	15	♂	Hedwig	men, that every one almost	5		46		14
6	16	♃	19 p. Trin.	desired to have and keep a	6		48		12
7	17	♀	Florent	Hare; by reason whereof	7		50		10
8	18	♄	S. Luke	the number of them grew	8		52		8
9	19	☉	Ptolomy	to be so great, within a	9		54		6
10	20	☽	Wendelin	short space after, that the	10	6	56	5	4
11	21	☿	Ursula	whole Island became full	11	6	58	5	2
12	22	♂	Cordula	of Hares, so that their Ma-	12	7	0	4	0
13	23	♃	20 p. Trin.	sters were not able to find	13		2		58
14	24	♀	Salome	them meat; whereupon the	14		4		56
15	25	♄	Crispin	Hares breaking forth into	15		6		54
16	26	☉	Amandus	the Fields, devoured their	16		8		52
17	27	☽	Victoria	Corn; wherefore the In-	17		10		50
18	28	☿	S.S. & Jud.	habitants being bitten with	18		12		48
19	29	♂	Narcissus	hunger, joyned together	19		14		46
20	30	♃	21 p. Trin.	with one consent, and	20	7	16		44
21	31	♀	Wolfgang	(though with much ado)	21		18	4	42
22	Nov.	♄	All Saints	destroyed the Hares. *Ju-*	22		19		41
23	2	☉	Om. Anim	*piter* therefore placed this	23		21		39
24	3	☽	Theophil.	Constellation in the Hea-	24		23		37
25	4	☿	Modestus	vens, as well to express	25	7	25	4	35
26	5	♂	Petronel	the exceeding Fearfulness	26		27		33
27	6	♃	22 p. Trin.	of the Beast, as also to	27		29		31
28	7	♀	Willibald	teach men this Lesson	28		31		29
29	8	♄	Claudius	That there is nothing so	29		33		27
30	9	☉	Theodore	much to be desired in this	30		35		25
31	10	☽	Martin P.	life,	31	7	36	4	24

● New Moon the 2 day, at 1 in the morning.
☽ First Quarter the 10 day, at 6 in the morning.
○ Full Moon the 16 day, at 10 at night.
☾ Last Quarter the 23 day, at 6 at night.

1	D	All Saints	1cor.	14	7	4			Cold, brisk and
2	e	All Souls	ſcorp.	26	New	☽		–	ſharp Air at the be-
3	f	23 S. poſt Trin.	ſagit.	8	4	A	32		ginning, afterwards
4	g	☽ n. dex. hu. Op.	ſagit.	20	5		6		□ ☉ ♃ more
5	a	Gun Powd. Plot	capr.	2	5		52		rough and turbu-
6	b	☽ n. Caud. Vult.	capr.	14	6		50		lent with Snow or
7	c	☽ n. luc. Vult.	capr.	26	8		0		✶ ♃ ♂ Sleet,
8	d	♄ ♏ 11	aqua.	8	9		20		which turns at laſt
9	e	☽ n. fin. hu. ♒	aqua.	20	10		42		♂ ♂ ♀ to cold
10	f	24 poſt Trinity	piſces	3	12		8		△ ♃ ♀ Rain.
11	g	Martinmaſs	piſces	16	0	M	8		Now more tempe-
12	a	☉ in Sagit.	arles	0	1		34	Moons Setting.	rate weather is ex-
13	b	♃ ♒ 24 ☽	arles	14	3		0		pected for a time;
14	c	♂ ♈ 23 St.	aires	28	4		30		but about the Full
15	d	♀ ♏ 0	taur.	13	6		0		Moon ſome brisk
16	e	♀ ♐ 7 R.	taur.	29	Full	○		–	Winds bringing
17	f	25 S. poſt Trin.	gem.	14	4	A	0		♂ ☉ ♃ moiſture;
18	g	☽ n. de hu. Aur.	gem.	29	4		46		which being paſt,
19	a	☽ n. Syrius	canc.	14	6		0		we may expect a
20	b	☽ n. Aſellus	canc.	29	7		32		more temperate
21	c	☽ a. Cor. Hy Ir.	leo	13	9		0		Seaſon; and towards
22	d	☽ n. Cor leonis	leo	25	10		26	Moons Riſing.	the end of the
23	e	☽ n. ✶ in F. leo	virgo	9	11		48		Month increaſe of
24	f	26 S. poſt Trin.	virg.	22	1		6		Cold is expected,
25	g	☽ n. Vindem itr.	libr.	5	1	M	6		with a ſharp and
26	a	☽ n Spic. Virg.	libr.	17	2		22		♂ ♄ ♀ Froſty
27	b	☽ n. Luc. Coron.	libra	29	3		36		Air, and right Win-
28	c	Term ends	ſcorp.	11	4		50		terly weather.
29	d	☽ n. ſin. Man. Op.	ſcorp.	23	6		3		
30	e	Saint Andrew	ſagit.	5	7		50		

Saturn *towards the end emergeth from the Sun beams, and riseth with* Venus *before the Sun.* Jupiter *sets between* 10 *and* 11 *at night.* Mars *South between* 9 *and* 10 *at night, and sets about* 4 *in the morning.* Mercury *in the midst goeth to Combustion; but at the end he riseth before the Sun.*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	g	Martin Ep.	life, but that at one time or	1	7	38	4	22
2	12	a	Cunibert	other it bringeth with it	2		39		21
3	13	b	3 p. Trin.	more grief than pleasure.	3		41		19
4	14	c	Frederick	Others say, that it was	4		43		17
5	15	d	Leopald	placed in Heaven at the	5		45		15
6	16	e	Otmarus.	request of *Ganimedes*, who	6		46		14
7	17	f	Hugo	was greatly delighted with	7		48		12
8	18	g	Hezechias	hunting the Hare.	8		49		11
9	19	a	Elizabeth	*Canis Major*, The great	9		51		9
10	20	b	24 p. Trin.	Dog, it consisteth of 18	10	7	52	4	8
11	21	c	Obl. V. M.	Stars, it is also called *Sy*	11		54		6
12	22	d	Cæcilia	*rius*: This is said by some	12		55		5
13	23	e	Clemens	to be one of *Orions* Dogs	13		57		3
14	24	f	Chrysog.	*Nevidius* will have it to be	14	7	58		2
15	25	g	Catherine	referred to *Tobias* his Dog	15	8	0	4	0
16	26	a	Conradus	which may very well be,	16		1		59
17	27	b	Advent.	because he hath a Tail	17		3	3	57
18	28	c	Rufus	*Tobias* Dog had one; as a	18		4		56
19	29	d	Saturn. F.	certain Fellow once con-	19		6		54
20	30	e	S. Andrew	cluded, because it is written	20	8	7	3	53
21	Dec.		Longinus	that *Tobias* his Dog fawned	21		8		52
22	2	g	Candidus	upon his Master, There-	22		9		51
23	3	a	Caffian	fore it is to be noted (said	23		10		50
24	4	b	2 Advent.	the Fellow) that he had a	24		11		49
25	5	c	Sabina	Tail. The Poets say,	25	8	12	3	48
26	6	d	Nicholaus	that this is the Dog that	26		13		47
27	7	e	Agathon	*Jupiter* set to keep *Europa*,	27		14		46
28	8	f	Conc. V. M.	after that he had stollen	28		15		45
29	9	g	Joachim	her away, and conveyed	29		15		45
30	10	a	Miltiades	her	30	8	16	3	44

☽ New Moon the 1 day, at 8 at night.
☽ First Quarter the 9 day, at 8 at night.
○ Full Moon the 16 day, at 10 in the morning.
☾ Last Quarter the 23 day, at 11 in the morning.
Moon the 31 day, at 3 in the afternoon.

1	f	Advent Sund.		sagit.	10	New				Good weather
2	g	☽ n.Cep. Drac.		sagit.	28	3	A	44		the Season consi-
3	a	☽ n.luc. Lyræ		capr.	11	4		38		dered, and about
4	b	☽ n.luc. Vult.		capr.	23	5		44		the 5th or 6th days
5	c	♄	♏	14	aqua.	5	7		0	some Wind and
6	d	♃	♐♐	27	aqua.	17	8		18	Snow; and about
7	e	♂	♈	26 D.	pisc.	0	4		40	△ ☉ ♂ □ ♃ ☿
8	f	S. Advent			pisc.	13	11		2	✱ ☉ ♄ the 7th
9	g	♀	♐	0 0	pisc.	26	12		24	misty and foggy
10	a	☿	♐	10	aries	9	0	M	4	weather, with Hoar
11	b	Sol in Capric.			aries	23	1		48	Frosts, and about
12	c	☽ n.Auf.P.And.			taur.	7	3		15	the 12 day some
13	d	☽ n. Pleiades			taur.	22	4		45	increase of Cold
14	e	☽ n. Aldebaran			gem.	5	6		18	yet generally good
15	f	S. Advent			gem.	22	7		50	✱ ☿ ♂ weather
16	g	☽ n.Syrius			canc.	7	Full		—	for the season, and
17	a	☽ n. Procyon			canc.	22	4	A	45	probably no great
18	b	Ember week			leo	7	6		15	alteration, except
19	c	☽ n. Cor. leonis			leo	21	7		42	other-whiles some
20	d	☽ n. Ra. G. Ur. M.			virg.	5	9		6	brisk gales of Wind,
21	e	St. Thomas			virg.	18	10		28	with some little
22	f	S. Advent			libra	1	11		48	moisture. But a-
23	g	☽ n. Spic. Virg.			libra	13	2		6	bout the 26th or
24	a	☽ n. Laex. Auft.			libra	26	1	M	6	27th days is ex
25	b	Nat. Christ.			scorp.	8	2		20	✱ ♃ ☿ pected
26	c	St. Stephen			scorp.	19	3		32	✱ ☉ ♄ Cold,
27	d	St. John			sagit.	1	4		42	△ ♂ ☿ Windy
28	e	Innocents			sagit.	13	5		50	and Stormy weather
29	f	☽ n. dex. hu. Op.			sagit.	25	7		0	and variable to the
30	g	☽ n. luc. Lyræ			capr.	7	8		0	end of the Month
31	a	☽ n. luc. Vult.			capr.	19	New			

Moons Setting.

Moons Rising.

Saturn *at the beginning riseth between* 4 *and* 5 *in the morning; at the end he riseth about* 3. Jupiter *sets about* 9 *at night.* Mars *sets between* 2 *and* 3 *in the morning.* Venus *riseth a little before break of day at the beginning, but at the end not till any.* Mercury *riseth before the Sun:*

Engl. Accompt.	For. Accompt.	Rom. Kalendar.	Rom. Saint da.								
1	11	28	3 Advent	her into *Creet*, which Dog	1	8	16	3	44
2	12	c	Valerius	for his watchfulness and	2		17		43
3	13	d	Lucia V.	good service *Jupiter* after-	3		17		43
4	14	e	Nichasius	wards placed in Heaven.	4		18		42
5	15	f	Abraham	*Canis Minor*, the Lesser	5		18		42
6	16	g	Ananias	Dog; this is of the Greeks	6		18		42
7	17	a	Lazarus	called *Procyon*, of the La-	7		18		42
8	18	28	4 Advent	tins *Ante canis*, i contains	8		15		41
9	19	c	Loth	but 2 Stars; some say that	9		15		41
10	20	d	Amon	this was also one of *Orions*	10		19		41
11	21	e	St. Thomas	*Dogs*, others rather affirm it	11	8	15	3	41
12	22	f	Theodose	to be *Mera* the Dog of *Erigo-*	12		19		41
13	23	g	Dagobert	*ne*, or of *Icarius* her Father.	13		19		41
14	24	a	Ad & Eve	This Dog of meer love to	14		19		41
15	25	28	Christmas	his Master, being slain by	15		18		42
16	26	c	St. Stephen	some drunken men, threw	16		18		42
17	27	d	St. John	himself into the River *A-*	17		18		42
18	28	e	Innocents	*nygrus*, but was after wards	18		18		42
19	29	f	Jonathan	translated into Heaven with	19		17		43
20	30	g	David	*Erigone*. Among the Poets	20	8	17	3	43
21	31	a	Sylvester	there is great dissension	21		16		44
22	Jan.	1690.	Circ	which of the two should	22		15		45
23	2	b	Abel	be the Dog of *Erigone*,	23		15		45
24	3	c	Enoch	some saying that the one is,	24		14		46
25	4	d	Methusal.	and some the other, and	25		13		47
26	5	e	Simeon	therefore they do many	26		13		47
27	6	f	Epiphany	times take the one for the	27		12		48
28	7	g	Julian	other. These two Stars	28		11		49
29	8	a	1 S. past Ep	come to the South with	29		10		50
30	9	b	Marcel	*Castor* and *Pollux*, and the	30	8	9	3	51
31	10	c	Paul, Erem	Heads of *Gemini*.	31		8		52

A Table shewing how many Years purchase a Lease or Annuity to endure for any number of Years under 33. is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in Being, and the value of the Reversion after any number of Years.

Years of a Lease.	Years.	Months.	Tenth parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	0
7	5	7	6
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

The Use and Explanation of the TABLE.

The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, & right against each Year, is the Years, Months, & Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth.

EXAMPLE.

Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, & against the same you shall find, 8, 4, 6. which sheweth that such a Lease is worth eight Years, four Months, & six Tenth Parts of a Months Purchase.

Years of a Lease	Years	Months.	Tenth parts.
17	10	5	8
18	10	9	9
19	11	1	3
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

This is Useful, and very Easie.

SAUNDER, 1689.

The Second Part.

Containing the Eclipſes; the Suns Quarterly Ingreſſes, the Southing of the ſeven Stars for every 5th. day of this Year. With Rules and Tables for the meaſuring of Board, Glaſs, Pavements, or other Superficial Meaſure; as alſo to Meaſure Timber; And many other things worth Obſervation.

The Characters of the Twelve Signs.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagittary, ♑ Capricorn, ♒ Aquarius, ♓ Piſces.

The Characters of the Planets, with the Dragons Head and Tail.

♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aſpects.

☌ Conjunction, ⚹ Sextile, □ Quartile, △ Trine, ☍ Oppoſition.

A Brief Chronology of Memorable things, to this Year, 1689.

Since	The Creation of the World	5637
	Noahs Flood	3982
	The deſtruction of Sodom and Gomorrah	3591
	The deſtruction of Troy	2871
	Brute entred this Iſland	2796

Since

The Building of *London*	2796
The Building of *York*	2678
The Building of *Leicester*	2633
The Building of *Canterbury*	2581
The building of *Stamford*	2552
The building of *Rome*	2441
The deſtruction of *Jeruſalem* by *T. Veſ.*	1602
England firſt received the Chriſtian Faith	1509
The Tower of *London* built	1124
Duke *William* Conquered *England*	623
Weſtminſter-Hall was built	590
The Bible divided into Chapters	494
The Invention of Guns	311
The Art of Printing	249
St. *Pauls* Steeple fired by Lightening	128
New Star in *Caſſiopeia*	116
A great Snow fel *Feb.* 4.	111
Tilbury Camp on St. *James*'s day	101
A Plague in *London*, whereof dyed 30598	85
Gunpowder Treaſon, *November* 5.	84
A great Snow, and *Smithfield* paved	74
A great Plague in *London*, whereof dyed 35418	64
The Long Parliament began, *Nov.* 3.	49
King *Charles* the Firſt was Murdered	41
Two Comets appeared in *December* and *March*	25
The doleful Plague that followed them	24
London was burnt *September* 2. 3, 4, 5,	23
The laſt great Snow	15
The wonderful Comet in *December*	9
A Comet in *Auguſt*	7
The terrible Fire in *Wapping*, *November* 19.	7
A great Earthquake, *October* the 6th.	6
The laſt great Froſt	5
The Rebellion in the *Weſt*	4

Of the Eclipſes this Year.

SIX times will the Luminaries be Eclipſed to the Inhabitants of this Terraqueous Planet: *viz.* Four times the Sun, and twice the Moon; there will none of the Suns Eclipſes be viſible to us; but thoſe of the Moon will be both great and viſible.

The

CALENDER, 1689.

The first Eclipse of the Sun will be *March* 11th. about 10 of the Clock in the morning, and though not seen by us, yet under the Antartick Circle, and about 120 deg. Eastward in Longitude from *London*, the Sun will set about 6 digits Eclipsed.

The second Eclipse of the Sun will be the 9th day of *April*, about half an hour after 6 at night, and will appear betwixt 2 and 3 digits Eclipsed to the North-East part of *Tartaria*, upon the *Tartarian* Ocean, *&c.*

The third Eclipse of the Sun will be the 3d day of *September*, about half an hour after 3 in the Afternoon, and will appear at his setting about 3 digits Eclipsed, to the most Eastward parts of *Lapponia*, to part of *Russia*, about the White Sea, *&c.*

The fourth Eclipse of the Sun will be the 3d day of *October*, about 7 of the Clock in the Morning, and will appear under the Antartick Circle, about 34 degrees Westward in Longitude from *London*, almost 2 digits Eclipsed.

The first of the Moons Eclipses happeneth the 25th day of *March*, at 6 ho. 30′ 47″

The place of the Sun then, is ♈	15 deg.	43	35
Place of the Moon ♎	15	43	35
Node ascending substract	14	59	11
Rests Argument Latit. 6 Sig.	00	44	24
Moons true Latitude Sou. asc.		03	52
Reduction substract		00	11
Time of Reduction added		00	24
Correct time *March* the 25th.	6 ho.	31	11
Equation of time added		00	56
Apparent time at London, at 6 hours		32	07
Difference of Meridians substract		04	00
Apparent time at *Leicester*, at 6 hours		28	07
Semi-diameter of the Moon		15	24
Semi-diameter of the Earths shadow		41	58
Sum of the semi-diameters		57	22
Moons Latitude substract		03	52
Rests, parts deficient		53	30
Digits Eclipsed 20		50	39
Minutes of incidence, and half tarriance in total darkness		57	14
Time of incidence and half tarriance in the shadow, 2 ho.		04	29
Minutes of half continuance in the shadow		26	17
Time of half continuance in the shadow		57	10

Continuance of total darkneſs	1 hour	54′	20″
Total duration	4	08	58
Interval of the Oppoſ. and greateſt obſcuration		00	44
The beginning of the Eclipſe at	4 hours	22	54
The beginning of total darkneſs at	5	30	13
The middle of the Eclipſe at	6	27	23
The end of total darkneſs at	7	24	33
The full end of the Eclipſe at	8	31	52
Moons Latitude at the beginning } Nor. deſcend.		01	34
Moons Latitude at the end } Sou. aſcend.		09	18

There will be only the latter part of this Eclipſe viſible to us, there being half paſt before the Moon Riſeth.

A Type of the Eclipſe.

In this Figure, the great Circle A, B, C, D, repreſenteth the Earths ſhadow, through which the Moon paſſing is thereby Eclipſed; The Line E, E, repreſenteth the Ecliptick; the Line L, L, the way of the Moon in her Orbit: The utmoſt Moon to the Right hand ſheweth the place of the Moon at the beginning of the Eclipſe, with North Latitude 1 min. 34 ſec. deſcending: The firſt within the ſhadow ſheweth the Moons place at the beginning of total darkneſs: The middle moſt Moon ſheweth the Moons place at the middle of the Eclipſe: The utmoſt within the ſhadow, to the Left-hand, is the Moons place at the end of total darkneſs, where when the Moon cometh ſhe immediately begins to recover light on the Eaſt ſide of her Body; That on the left hand, and without the ſhadow is the Moons place at the end of the Eclipſe, having then 9 min. 18 ſec. of South Latitude aſcending.

The

The Moons ſecond Eclipſe happeneth the 19th day of *September*, at 2 hours, 40 minutes, 42 ſeconds, in the morning.

At what time the place of the Sun is	♎	06	26′	26″
The place of the Moon is	♈	06	26	26
Node aſcending ſubſtract	0	05	35	53
Reſts Argument Latit.			50	33
Moons true Latitude North aſcending			04	24
Reduction ſubſtract			00	13
Time of Reduction added			00	23
Correct time at 2 hours			41	05
Equation of time added			06	14
Apparent time at *London* 2 hours			47	19
Difference of Meridians ſubſtract			04	00
Apparent time at *Leiceſter* at 2 hours			43	19
Semidiameter of the Moon			16	28
Semidiameter of the Earths ſhadow			45	56
Sum of the Semidiameters			62	24
Moons Latitude ſubſtract			04	24
Reſts parts deficient			58	00
Digits Eclipſed are 21			08	01
Minutes of Incidence and half continu. of total darkneſs			62	15
Minutes of half continuance in the ſhadow			29	08
Time of Incidence, and half continuance 1 hour			50	11
Time of half continuance of total darkneſs			51	34
Continuance of total darkneſs, 1 hour			43	08
Total duration 3 hours			40	22
Interval of the true Oppoſition and great obſcuration			00	40
The beginning of the Eclipſe at 12			51	28
The beginning of total darkneſs at 1 hour			50	03
The middle of the Eclipſe at 2			41	39
The end of total darkneſs at 3			33	13
The full end of the Eclipſe at 4			31	50
Moons Latitude at the beginning } Sou. deſcend. {			01	24
Moons Latitude at the end } North aſcend. {			10	12

Theſe Eclipſes of the Moon are both of them very great and remarkable, and will (without queſtion) invite the curious in Aſtronomy to make Obſervation. As to the effects of Eclipſes, *Proclus* tells us, that in ♈ *decem primis gradibus obſcurat, Luna, Febres futuras, ædium incendia, Combuſtiones nemorum, ac aëris ſiccitatem oſtendit*

A Type of the Moons Eclipse, Septemb. 19th. at 2 ho. 40 min. *mane.*

Of the Four Quarters of the Year, and first of the Spring.

THE Spring Quarter begins, (according to our account) when the Earth entreth *Libra*, causing the Sun to appear in *Aries*, and happeneth this year upon the 9th. day of *March*, 36 min. past 7 at night, making equal day and night to all the World, (except under the *Poles*). Now is there an equal temper of the Air, whereby the pores of the Earth are relaxed, and a vivifying fume evaporating, ascendeth by the cold and chillified Roots of Herbs and Plants, and produceth their vegetable Life. The nature of this Quarter is generally hot and moist, if it prove otherwise, it bringeth sudden strange diseases, and noxious distempers. Such persons as are naturally Melancholly do enjoy their Healths the best this Quarter; The Sanguine the contrary; Those diseases that proceed from excess and putrefaction of blood are most dangerous, but those that have their Original from Melancholly are less hurtful. In *March* be not too busie in purging or bleeding, but rather bathe and use such meats or medicines as purge and sweeten the blood. In *April* you may freely bleed, bathe, or purge if there be occasion, but drink moderately, for excessive drinking is now most dangerous, also forbear salt meats. In *May* you may purge gently the body or blood, or open a vein; to drink clarified Whey is good, but forbear Wine, and all such meats as are of a hot quality.

Of Summer.

SUmmer Quarter begins the 10th. day of *June*, 8 min. past 10 at night; the Sun appearing at the Tropick of Cancer, maketh

maketh the longeſt day and ſhorteſt night to all the inhabitants on this ſide the Equator. The natural conſtitution of this Quarter is hot and dry, ſympathizing with choler, perſons of Phlegmatick conſtitutions are beſt in health this quarter, the cholerick the contrary, antient people do now revive, but young people languiſh through the exceſs of blood and choler, and are thereby expoſed to Feavers, eſpecially the Tertian: In the month of *June* abſtain from ſuch meats as ingender raw crude, and moiſt humours, now a cup of good White-wine taken faſting purges choler, and offenſive humours from the Stomack. Now 'tis excellently good to riſe early, and to exerciſe the body with moderate walks. In *July* beware of bleeding or purging, unleſs there be great neceſſity, in this and the next month refrain immoderate exerciſe and venery, and drink not much Wine; alſo beware of eating ſuch meats as ingender melancholy, and of taking cold.

Of Autumn.

AUtumn begins the 12th. day of *September*, 28 min. paſt 1 in the afternoon, the Earth then entring Aries, or the Sun Libra, doth again make equal day and night. This Quarter is naturally cold and dry reſembling melancholy; youth is now lively; perſons of moiſt and phlegmatick conſtitutions are now beſt in health, but melancholy the contrary. In *September* eat moderately of all ſuch meats and fruits as your ſtomack deſires, for they are now in their vigour and perfection; in this month and next you may bleed or purge, if there be occaſion, but in *November* melancholy increaſeth, and blood decreaſeth, to vomit ſometimes may do well, but bathing is not good, now ſalt meats may be eaten without prejudice, wild Fowl and roaſted meats are now held to be very wholſome; in this quarter beware of taking cold.

Of Winter.

WInter quarter begins the 11th. day of *December*, 30 min. paſt one in the morning, the Sun then entering the firſt ſcruple of Capricorn, maketh the ſhorteſt day, and longeſt night to all on this ſide the Equator. This quarter is naturally cold and moiſt, therefore youth and cholerick perſons are beſt in health, but aged and phlegmatick the contrary. In *December* melancholy and phlegm increaſe, 'tis therefore good to keep your ſelves from cold, and to eat ſuch meats as be of a hot quality. 'Tis not good to bleed or purge unleſs there be great ne-

ceſſity, to uſe good Spices in your Diet is very good, the ſame obſerve in *January*; but in *February* you may take pills to purge the Head, alſo bathe or take potions, and bleed now if there be occaſion.

To find the Riſing, ſouthing and ſetting of ſeveral fixed Stars hereafter mentioned.

IN the Tables following you have firſt the ſeven Stars Southing for every fifth day, ſecondly the difference in Southing, between thoſe ſeveral Stars and the ſeven Stars, which added to the time of the ſeven Stars Southing giveth theirs. Thus I would know what time the ſecond *Star* in Orions Girdle will be South the 11th. day of *January*; I then find the ſeven Stars South at 7 *hou.* 10 *min.* to which I add 1 *hour* 51 *min.* the difference annexed to the ſecond Star in Orions Girdle, and it makes 9 *hou.* 1 *min.* being the time of its Southing, to which if you add the ſemi-diurnal Arch, 5 *hou.* 54 *min.* it gives 14 *hou.* 55 *min.* which is 2 *hou.* 55 *min.* in the next morning for the time of its ſetting, but if you ſubſtract the ſaid 5 *hou.* 54 *min:* from the Southing it leaveth it Riſing, *&c.*

A Table ſhewing the Hour and Minute of the Seven Stars coming to South, every 5th day of this year, 1689.

Moneths	Dayes of the Moneth. 1		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 56	7	A 35	7	A 13	6	A 52	6	A 31	6	A 12
February	5	A 48	5	28	5	9	4	50	4	31	4	13
March	4	A 0	3	42	3	24	3	5	2	47	2	29
April	2	A 9	1	50	1	32	1	13	0	54	0	34
May	0	A 16	11	M 56	11	M 36	11	M 16	10	M 55	10	M 35
June	10	M 1	9	51	9	30	9	10	8	48	8	28
July	8	M 8	7	48	7	27	7	7	6	48	6	28
Auguſt	6	M 6	5	48	5	29	5	10	4	51	4	33
September	4	M 12	3	54	3	36	3	19	3	2	2	42
October	2	M 24	2	51	1	46	1	27	1	7	0	48
November	0	M 25	0	5	11	A 41	11	A 18	10	A 56	10	34
December	10	A 14	9	A 52	9	29	9	7	8	44	8	22

A Table

A Table shewing the difference in hours and minutes between the coming to south of several fixed stars, and the seven stars, as also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	*Diff. south.*		*semid. Arches*		*Names of the Stars.*	*Diff. south.*		*semid. Arches*	
	h.	*m.*	*h.*	*m.*		*h.*	*m.*	*h.*	*m.*
Aldebaran B. eye	0	49	7	28	Lions heart, Basil.	6	23	7	13
2d. in Orions Girdle	1	51	5	54	Virgins Spike	9	40	5	9
Gr. Dog. Syrius	3	2	4	31	Arcturus	10	32	8	0
Castor 1st. head ♊	3	46	9	47	South ballance	11	5	4	40
Lit. Dog. Procyon	3	54	6	32	North ballance	11	31	5	16
Pollux, 2d. head ♊	3	57	9	4	Northern Crown	11	52	8	55
Northern Ass.	4	56	8	12	bright ✱ Lyræ	14	57	*sets not*	
Southern Ass.	4	58	7	49	bright ✱ Vulturis	16	6	6	42

Here followeth some few Rules, and Tables, for the mensuration of Superficies and Solids.

FOr the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure, as the Square, Long-square, or Parellelogram, Triangle, Circle, parts of the Circle, *&c.* examples of all which do here follow.

I. *How to measure a Square.*

Let there be a square floor, or pavement, the sides whereof are each of them 5 feet 6 inches, and 'tis required to know how many square, or superficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches; then divide 4356 by 144 (the square inches in one foot) and the quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See the Margin.

```
  66
  66
 ----
 396
396
 ----
4356

4356
144
----(30
432
 36
```

II. *To*

II. *To measure the Long-square or Parallelogram.*

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Measure a Long Superficies, which is broader at one end than at the other.*

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

72
42
144
288
3024
144
288 (21
144

IV. *How to Measure Triangles.*

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All *Trapezias*, or figures with four unequal sides; also Multangular, or many sided irregular figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the Content of such irregular figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. *How to Measure Circles, and parts of Circles.*

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore the

the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the Product being divided by 7, the Quotient will be the circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the Product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a circle. Multiply half the circumference by half the Diameter, the product is the content of the circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter $19\frac{2}{22}$ the half whereof is $9\frac{1}{22}$, by which multiplying 30, the product will be $286\frac{4}{11}$ which is the ſuperficial content of ſuch a circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare the Diameter, multiply the ſquare by 11, and divide the product by 14, the Quotient is the ſuperficial content of the circle.

Let the Diameter be as above $19\frac{1}{11}$ the ſquare whereof is $364\frac{56}{121}$ this multiplyed by 11 produceth $4009\frac{1}{11}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the ſuperficial content of ſuch a circle.

To Meaſure the ſuperficial content of half the circle, the quarter of a circle, or of any other ſection of a circle, more or leſs, having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of the circle, ſo ſhall you have the content

Of the Menſuration of Solids.

AS Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſures conſiſteth of three dimenſions, namely, length, breadth and thickneſs.

To Meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multiplyed

plyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other ſolid matter) whoſe breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many ſolid feet are contained therein. Firſt, multiply the breadth 18 by the depth 13, the product is 234, being the ſuperficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the ſolid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one ſolid foot) and the quotient will be 19, and 396 inches remaining, which is 19 ſolid feet, and almoſt one quarter of a foot, and ſo much is the ſolid content of ſuch a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whoſe compaſs is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the ſolid content thereof. Firſt, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, ſo ſhall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying $\frac{1}{4}$ the circumference by $\frac{1}{4}$ the Diameter; or by (ſquaring, or) multiplying the Diameter in it ſelf, and multiplying that ſquare by 11, and dividing the product by 14, the ſuperficial content of the end of ſuch a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and $39\frac{3}{11}$ inch. remaining, which is the ſolid content of ſuch a piece of Timber. But had this piece of Timber been meaſured by that egregiouſly falſe way of taking $\frac{1}{4}$ part of the Girt for the ſide of the ſquare equal, it would have been found to be but 31 feet and $\frac{1}{4}$ of a foot, which is above $\frac{1}{8}$ part leſs than the truth, it being 39 feet, & above $\frac{3}{4}$.

In behalf of that erroneous way many do plead, that in round Timber there is great loſs in chipping to bring it near a ſquare, therefore that way may be allowed; but this is very unequal: in great Timber there being little loſs, in ſmall Timber much, let therefore the quality be conſidered, rather than make ſuch unequal amends by a falſe quantity.

Of the Menſuration of Tapering Timber, either round or ſquared, ſuch as Fruſtums of Cones and Pyramids.

FIrſt find the ſuperficial Area of each end of the piece, and multiplie the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diamete. 10½) will be found to be 346½, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed in it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be 731½. Lastly, multiply 731½ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other wayes than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44 hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, if 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone; now the superficial

content

content of the Base of this Cone, (being 346½ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches th: length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 36 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot.	
Inch.	Se.	Inc.	10ths	Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	3

A Table ſhewing how many inches in length will make a foot ſolid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compaſs to 100.

Com.	len. of a foot		Com.	len. of a foot		Com.	len. of a foot	
Inch.	Inch.	100 p.	Inch.	Inch.	100 p.	Inch.	Inch.	100 p.
11	179	46	4	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

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